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8 UNITED STATES DISTRICT COURT

9 NORTHERN DISTRICT OF CALIFORNIA

10 SAN FRANCISCO DIVISION

11 SONOS, INC.,

12 Plaintiff,

13 vs.

14 GOOGLE LLC,

15 Defendant.

CASE NO. 3:20-cv-06754-WHA

Related to CASE NO. 3:21-cv-07559-WHA

**GOOGLE'S CORRECTED MOTION FOR
SUMMARY JUDGMENT PURSUANT TO
THE COURT'S PATENT SHOWDOWN
PROCEDURE**

The Hon. William H. Alsup

Date: June 9, 2022

Time: 8:00 a.m.

Location: Courtroom 12, 19th Floor

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TABLE OF CONTENTS

Page

I.	STATEMENT OF ISSUES TO BE DECIDED	3
II.	LEGAL STANDARD	3
III.	ARGUMENT.....	3
A.	Google Does Not Infringe Claim 13 of the '615 Patent.....	3
1.	The Accused YouTube Applications Do Not Infringe	4
2.	The Accused YouTube Applications Use A Cloud Queue, Not A “Local Playback Queue On The Particular Playback Device”	5
3.	The Accused YouTube Applications Do Not Store “Multimedia Content” In Any Alleged Playback Queue	11
4.	The Accused YouTube Applications Do Not Store “Resource Locators” In Any Alleged Playback Queue.....	12
5.	The Accused Google Play Music Application Does Not Infringe.....	13
6.	GPM Uses A “Cloud Queue,” Not A “Local Playback Queue On The Particular Playback Device”.....	13
7.	GPM Does Not Store “Multimedia Content” In An Alleged Local Playback Queue.....	15
B.	An Earlier Version of the YouTube Application Invalidates Claim 13.....	16
C.	Google Does Not Infringe Claim 1 of the '885 Patent.....	21
IV.	CONCLUSION.....	25

TABLE OF AUTHORITIES**Page****CASES**

<i>01 Communique Lab'y, Inc. v. Citrix Sys., Inc.</i> , 889 F.3d 735 (Fed. Cir. 2018).....	17
<i>Amazon.com, Inc. v. Barnesandnoble.com, Inc.</i> , 239 F.3d 1343 (Fed. Cir. 2001).....	23
<i>Amgen Inc. v. Sandoz Inc.</i> , 923 F.3d 1023 (Fed. Cir. 2019).....	10
<i>Bd. of Trustees of Leland Stanford Junior Univ. v. Roche Molecular Sys., Inc.</i> , 528 F. Supp. 2d 967 (N.D. Cal. 2007).....	23
<i>Bio-Rad Lab'ys, Inc. v. 10X Genomics Inc.</i> , 967 F.3d 1353 (Fed. Cir. 2020).....	11
<i>Celotex Corp. v. Catrett</i> , 477 U.S. 317 (1986).....	3
<i>Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co.</i> , 535 U.S. 722 (2002).....	10
<i>PharmaStem Therapeutics, Inc. v. ViaCell, Inc.</i> , 491 F.3d 1342 (Fed. Cir. 2007).....	24
<i>Powell v. Home Depot U.S.A., Inc.</i> , 663 F.3d 1221 (Fed. Cir. 2011).....	19
<i>Wasica Fin. GmbH v. Cont'l Auto. Sys., Inc.</i> , 853 F.3d 1272 (Fed. Cir. 2017).....	23

STATUTES

35 U.S.C. § 102(a).....	16
35 U.S.C. § 102(b).....	16
35 U.S.C. § 102(g).....	16
35 U.S.C. § 103.....	1
35 U.S.C. §§ 102.....	1

1 **NOTICE OF MOTION AND MOTION FOR SUMMARY JUDGMENT**

2 TO ALL PARTIES AND THEIR ATTORNEYS OF RECORD:

3 PLEASE TAKE NOTICE THAT, pursuant to the Court’s Patent Showdown Scheduling
4 Order (Dkt. 68), on June 9, 2022, at 8:00 a.m., or as soon thereafter as the matter may be heard, in
5 Courtroom 12, 19th Floor, of the San Francisco Courthouse, 450 Golden Gate Avenue, San
6 Francisco, California 94102, before the Honorable William Alsup, Google LLC (“Google”) will and
7 hereby does move for an order granting summary judgment on the following grounds: (i) Google
8 does not infringe claim 13 of U.S. Patent No. 9,967,615 (the “’615 Patent”); (ii) claim 13 of the ’615
9 Patent is invalid under 35 U.S.C. §§ 102 and 103; and (iii) Google does not infringe claim 1 of U.S.
10 Patent No. 10,848,885 (“’885 Patent”).

U.S. Patent No. 9,967,615 Claim 13

13[pre]. A tangible, non-transitory computer readable storage medium including instructions for execution by a processor, the instructions, when executed, cause a control device to implement a method comprising:

13.1 causing a graphical interface to display a control interface including one or more transport controls to control playback by the control device;

13.2 after connecting to a local area network via a network interface, identifying playback devices connected to the local area network;

13.3 causing the graphical interface to display a selectable option for transferring playback from the control device;

13.4 detecting a set of inputs to transfer playback from the control device to a particular playback device, wherein the set of inputs comprises: (i) a selection of the selectable option for transferring playback from the control device and (ii) a selection of the particular playback device from the identified playback devices connected to the local area network:

13.5 after detecting the set of inputs to transfer playback from the control device to the particular playback device, causing playback to be transferred from the control device to the particular playback device, wherein transferring playback from the control device to the particular playback device comprises:

(a) causing one or more first cloud servers to add multimedia content to a local playback queue on the particular playback device, wherein adding the multimedia content to the local playback queue comprises the one or more first cloud servers adding, to the local playback queue, one or more resource locators corresponding to respective locations of the multimedia content at one or more second cloud servers of a streaming content service;

(b) causing playback at the control device to be stopped; and

(c) modifying the one or more transport controls of the control interface to control playback by the playback device; and

13.6 causing the particular playback device to play back the multimedia content, wherein the particular playback device playing back the multimedia content comprises the particular playback device retrieving the multimedia content from one or more second cloud servers of a streaming content service and playing back the retrieved multimedia content.

U.S. Patent No. 10,848,885 Claim 1

[1.pre] A first zone player comprising:

[1.1] a network interface that is configured to communicatively couple the first zone player to at least one data network;

[1.2] one or more processors;

[1.3] a non-transitory computer-readable medium; and

[1.4] program instructions stored on the non-transitory computer-readable medium that, when executed by the one or more processors, cause the first zone player to perform functions comprising:

[1.5] while operating in a standalone mode in which the first zone player is configured to play back media individually in a networked media playback system comprising the first zone player and at least two other zone players:

(i) receiving, from a network device over a data network, a first indication that the first zone player has been added to a first zone scene comprising a first predefined grouping of zone players including at least the first zone player and a second zone player that are to be configured for synchronous playback of media when the first zone scene is invoked; and

(ii) receiving, from the network device over the data network, a second indication that the first zone player has been added to a second zone scene comprising a second predefined grouping of zone players including at least the first zone player and a third zone player that are to be configured for synchronous playback of media when the second zone scene is invoked, wherein the second zone player is different than the third zone player;

[1.6] after receiving the first and second indications, continuing to operate in the standalone mode until a given one of the first and second zone scenes has been selected for invocation;

[1.7] after the given one of the first and second zone scenes has been selected for invocation, receiving, from the network device over the data network, an instruction to operate in accordance with a given one of the first and second zone scenes respectively comprising a given one of the first and second predefined groupings of zone players; and

[1.8] based on the instruction, transitioning from operating in the standalone mode to operating in accordance with the given one of the first and second predefined groupings of zone players such that the first zone player is configured to coordinate with at least one other zone player in the given one of the first and second predefined groupings of zone players over a data network in order to output media in synchrony with output of media by the at least one other zone player in the given one of the first and second predefined groupings of zone players.

1 Google respectfully moves for summary judgment on three issues:

2 **No infringement of Claim 13 of the '615 patent:** In 2013, Sonos reached out to Google
 3 for help integrating its speakers with Google Play Music. The parties subsequently entered into a
 4 collaboration agreement, and Google shared with Sonos a novel system for permitting users to store
 5 queues of their musical selections in the cloud. When Google revealed its “cloud queue” plans to
 6 Sonos’s lead engineer, Tad Coburn, he expressed excitement and called the development [REDACTED]
 7 [REDACTED] Mr. Coburn found Google’s cloud queue technology [REDACTED] that he attempted
 8 to claim the invention for himself in multiple patents, including one of the non-showdown patents
 9 that Sonos asserts against Google in this case (the '033 patent in which Sonos amended the claims
 10 in 2019 to add a “remote playback queue” limitation). By doing so, Sonos and Mr. Coburn
 11 misappropriated Google’s technology and violated [REDACTED].
 12 With respect to the '615 patent at issue in the showdown, however, this history illustrates the
 13 frivolous nature of Sonos’s claims against Google, because that patent covers a “*local* playback
 14 queue on a particular playback device” rather than the remote *cloud* queue that Google invented.

15 Sonos knows full well that Google does not implement the claimed local playback queue,
 16 which requires storing the playback queue at a local playback device. Instead, Google’s accused
 17 devices request songs for playback from a cloud queue one-by-one. Because there is no local
 18 playback queue, Sonos argues that caching an identifier for an individual cloud queue item on the
 19 playback device transforms a cloud queue into a local playback queue. But this argument eliminates
 20 the “*local* playback queue” from the claims, which Sonos notably added to secure issuance after
 21 years of battling the patent examiner at the PTO.

22 Google does not infringe claim 13 for at least two other reasons. Namely, Google does not
 23 store the claimed “resource locators” in any alleged “local playback queue,” nor does Google add
 24 any “multimedia content” to that queue. These provide additional, independent, bases to grant
 25 summary judgment of non-infringement for claim 13, and they are described in detail below.

26 **Invalidity of claim 13 of the '615 patent based on Google prior art:** As discussed above,
 27 by 2013 Google began to transition its applications to a “cloud queue.” Prior to this transition,
 28 however, Google’s prior art products used a conventional “local playback queue” architecture for

1 managing music playback. In fact, Google developed this system for its YouTube Remote product
2 in 2010, prior to the '615 patent priority date, and therefore Google's YouTube Remote product
3 renders claim 13 of the '615 patent invalid.

4 The YouTube Remote allowed a user to queue up music on his or her mobile device, then
5 transfer playback of that queue to one or more televisions. Notably, the YouTube Remote prior art
6 product is a direct ancestor of the YouTube product Sonos accuses of infringement, and therefore it
7 aligns with Sonos's infringement theories in the same ways. [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED] Thus, Google's current (remote queue) products cannot infringe the patent, but its prior art
11 (local queue) products invalidate that same patent.

12 **No infringement of claim 1 of the '885 patent:** The '885 patent covers an alleged
13 advancement on speaker grouping, which allows users to set up "zone scenes" that carry out a user's
14 chosen "common theme" for the speakers in their homes. Google's products, however, merely use
15 generic and conventional speaker groups and do not implement Sonos's claimed "zone scenes." The
16 parties previously disputed the meaning of the "zone scene" term in the Western District of Texas,
17 with Sonos arguing that a "zone scene" only needed to be a predefined grouping of speakers, and
18 Google arguing that the patent coined the new term "zone scene" to specifically refer to setting a
19 particular "common theme" for a user's speakers. The court agreed with Google's proposed
20 construction, clearly setting Google's products apart from the patent because the accused speaker
21 products do not use a "common theme." However, relying on the fact that this case was transferred
22 from the Western District, and because Sonos received an unfavorable construction there, Sonos
23 attempts to ignore the operative claim construction order. But, as Google explained in its claim
24 construction briefing, that construction is correct, and Sonos is indeed bound by that order because
25 it affirmatively chose not to challenge it before this Court.

26 There is no serious dispute that Google's products do not include the claimed "common
27 theme." Nevertheless, Sonos argues that the "common theme" might be whatever a user has in their
28 mind at the time that they create a generic speaker group. This position is legally fraught because

1 courts across the nation, including the Federal Circuit, have squarely held that importing a mental
 2 state into the infringement analysis or claim construction is prohibited. Sonos also argues that any
 3 time a user assigns a name to a speaker group, this might also reflect the “common theme” that they
 4 intend, but this argument fares no better because the patent describes naming speakers separately
 5 from a “common theme.” Under the proper construction of “zonescene,” there is no genuine dispute
 6 that Google’s products do not infringe claim 1 of the ’885 patent, and therefore summary judgment
 7 of noninfringement is warranted.

8 **I. STATEMENT OF ISSUES TO BE DECIDED¹**

9 1. Whether Google is entitled to summary judgment that Google does not infringe claim
 10 13 of the ’615 Patent with respect to the accused products;

11 2. Whether Google is entitled to summary judgment that claim 13 of the ’615 Patent is
 12 anticipated by the YouTube Remote prior art system, or rendered obvious in further view of the
 13 general knowledge of a person of skill and/or the YouTube Remote patent ([U.S. Patent No.](#)
 14 [9,490,998](#)); and

15 3. Whether Google is entitled to summary judgment that Google does not infringe claim
 16 1 of the ’885 Patent with respect to the accused products.

17 **II. LEGAL STANDARD**

18 A court may grant summary judgment where the movant shows “there is no genuine issue
 19 as to any material fact and that the movant is entitled to judgment as a matter of law.” *Celotex Corp.*
 20 *v. Catrett*, 477 U.S. 317, 322 (1986). Upon showing “that there is an absence of evidence to support
 21 the nonmoving party’s case,” the moving party’s burden is met. *Id.* at 326.

22 **III. ARGUMENT**

23 **A. Google Does Not Infringe Claim 13 of the ’615 Patent**

24 Claim 13 is directed to a “control device” that controls playback of a “local playback queue
 25 on [a] particular playback device.” Here, Sonos alleges that a device (*e.g.*, a smartphone) running
 26

27 ¹ Google files this corrected motion because Sonos requested that Google address the Federal
 28 Circuit’s modified opinion in *Amgen Inc. v. Sandoz Inc.*, 776 F. App’x 707 (Fed. Cir. 2019), cited
 on page 10 of this motion.

1 a YouTube or Google Play Music (“GPM”) application is a “control device” that can control
 2 playback of a “local playback queue” stored on an alleged “playback device” (e.g., a TV or speaker).

3 Google’s accused systems, however, have long since moved away from a “local playback
 4 queue” in favor of a playback queue stored in the cloud (i.e., a “cloud queue”). Indeed, Sonos’s
 5 infringement allegations against GPM are directed to the very same cloud queue functionality the
 6 parties developed during a collaboration from 2013 to 2015. Ex. 1 (Bhattacharjee Decl.), ¶112. In
 7 November of 2013, Google told Sonos—including the named inventor on the ’615 patent, [REDACTED]

8 [REDACTED]
 9 [REDACTED]
 10 [REDACTED]
 11 [REDACTED]
 12 [REDACTED] *Id.*, ¶¶26-30. Sonos now accuses

13 the Cloud Queue API functionality in GPM and cloud queue functionality in YouTube, despite
 14 knowing that Google’s cloud queue design is different than the claimed “local playback queue.”²

15 **1. The Accused YouTube Applications Do Not Infringe**

16 Claim 13 requires a “control device” to transfer playback to a “particular playback device.”
 17 The step of transferring playback includes three limitations (annotated with numerals below):

18 [1] causing one or more first cloud servers to add multimedia content [2] to a local
 19 playback queue on the particular playback device, wherein adding the multimedia
 20 content to the local playback queue comprises the [3] one or more first cloud servers
 21 adding, to the local playback queue, one or more resource locators corresponding to
 22 respective locations of the multimedia content at one or more second cloud servers
 23 of a streaming content service;

22 ’615 patent, Claim 13. Thus, to demonstrate infringement Sonos must show that the system has “a
 23 local playback queue” and that the system adds both “multimedia content” and “resource locators”
 24 to that local playback queue. The accused YouTube systems do not meet any of these limitations.

25
 26 _____
 27 ² Although each of Sonos’s infringement theories fail because the accused applications do not have
 28 a “local playback queue,” the two sets of accused products, the YouTube applications and Google
 Play Music, operate differently and are therefore addressed separately below. Sonos has also
 manufactured numerous scattershot literal and doctrine of equivalents infringement theories for each
 product, which Google addresses in turn.

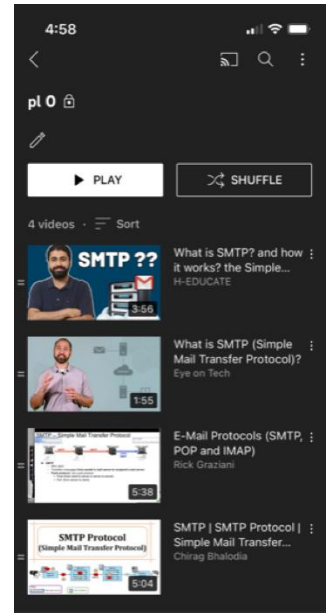
1 **2. The Accused YouTube Applications Use A Cloud Queue, Not A “Local**
2 **Playback Queue On The Particular Playback Device”**

3 The accused YouTube system does not use a local playback queue on the particular playback
4 device and therefore cannot infringe claim 13. Instead, the accused YouTube system uses a “cloud
5 queue” in which the “playback queue” is stored remotely [REDACTED]
6 [REDACTED] not by maintaining the
7 claimed local queue. Ex. 1 (Bhattacharjee Decl.), ¶¶ 63-66.

8 Sonos accuses Google’s MDx protocol as providing the local playback queue. [REDACTED]
9 [REDACTED]
10 [REDACTED]
11 [REDACTED]
12 [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]
19 [REDACTED]
20 [REDACTED]
21 [REDACTED]
22
23
24
25
26

27 ³ [REDACTED]
28 [REDACTED]

Using the accused YouTube applications, a user may select and queue up music or other media items and save them to a playlist (shown on the right) that is sent to an MDx server in the cloud and stored as a “cloud queue.” Ex. 1 (Bhattacharjee Decl.), ¶¶51-53. The remote “cloud queue” is the only “queue” Sonos has identified in the accused YouTube system, and indeed it does have qualities of a playback queue. For example, this cloud queue is an ordered list of multimedia items (referred to as “cloud queue items”) selected by the user for playback, which tracks both Google’s construction and the plain meaning of the term “playback queue.” Dkt. No. 200 (Google Responsive CC Br.) at 11; *Id.*, ¶68. Consistent with the ’615 patent’s description of a queue, the cloud queue may be edited and managed by the user (*e.g.*, users may add or remove cloud queue items, reorder those items, or clear the cloud queue altogether). *Id.*, ¶¶65, 73.



Critically, the playlist shown above is not stored on a playback device. Instead, with reference to the annotated image below, a user [1] creates a playlist; [2] the playlist is stored on the MDx server as a Cloud Queue; [3] when a user tells the playback device to play back a video from a playlist,



1 [REDACTED]
 2 [REDACTED]
 3 [REDACTED]
 4 [REDACTED] Ex. 1 (Bhattacharjee Decl.), ¶¶52-
 5 60. If the playback device stored the “playbackqueue” locally, it could play it back without needing
 6 to retrieve each cloud queue item individually because they would already be available. *Id.*

7 Because Google’s products do not use a “local playback queue on the particular playback
 8 device,”⁴ Sonos chose to “throw everything at the wall to see what sticks”—devising three
 9 alternative theories for what might possibly satisfy the “local playback queue” limitation. Each of
 10 these theories is flawed because they accuse Google’s cloud queue, not “a local playback queue on
 11 the particular playback device.”

12 **Sonos’s First and Second Theories:** [REDACTED]
 13 [REDACTED]
 14 [REDACTED]
 15 [REDACTED]

16 Both of these theories fail because they
 17 misunderstand how Google’s products work.
 18 [REDACTED]
 19 [REDACTED]
 20 [REDACTED]

21 [REDACTED] Ex. 1 (Bhattacharjee Decl.),
 22 ¶¶69-71. After the playlist stored in the cloud has been exhausted, the YouTube servers may
 sometimes send the playback device [REDACTED]. *Id.*, ¶71.

23 _____
 24 ⁴ Tellingly, after Google informed Sonos that its accused instrumentalities do not use a “local
 25 playback queue on the particular playback device” at the outset of this case (Dkt. No. 41, ¶ 25),
 Sonos initially refused to identify the claimed “local playback queue” in the accused device. (*See*
 Dkt. 86-4 [Google Ltr. Brief to Compel]). It was only after the Court granted Google’s motion to
 compel that Sonos disclosed what it was accusing as the “local playback queue.” *See* Dkt. 99.

26 ⁵ [REDACTED]
 27 [REDACTED]
 28 [REDACTED] Ex. 1 (Bhattacharjee Decl.), ¶71.

1 [REDACTED] *Id.*, ¶71.⁶

2 Neither theory satisfies the local playback queue limitation under either Google’s proposed
3 construction or the plain meaning of the term. [REDACTED]

4 [REDACTED]

5 [REDACTED]

6 [REDACTED]

7 [REDACTED]

8 [REDACTED]

9 [REDACTED]

10 [REDACTED] In other words, Sonos has not provided evidence that
11 any alleged playback device stores the playback *queue* because none of the variables Sonos accuses
12 are—by themselves or together—an ordered list of multimedia items selected by the user for
13 playback. Rather, Sonos merely argues that Google locally caches a single cloud queue item that is
14 currently playing and, after the playlist is exhausted, an identifier for a single recommended
15 video/song.

16 Sonos’s first and second theories depend on the faulty premise that [REDACTED]
17 [REDACTED] This is an unreasonable interpretation of the term
18 “playback queue,” to a person of skill in the art, Ex. 1 (Bhattacharjee Decl.), ¶¶71-73, and it is
19 inconsistent with the ’615 patent, Dkt. No. 200 at 11-18. The ’615 patent teaches that a “queue” is
20 an ordered list of tracks (’615 patent at 16:35-40), and that it may be “edit[ed]/[manag[ed]]” by, for
21 instance, allowing a user to “add, delete, and so on from the queue” (’615 patent at 16:52 -62).
22 Relatedly, the ’615 patent refers to the “Sonos Controller” as an exemplary “control device” (’615
23 patent at 5:2-11), and the Sonos Controller manuals similarly define a “queue” as the “list of tracks”
24 selected by the user (Dkt. No. 200-12 at 4-2), provide that the queue can be populated with a variable
25 number of items and edited and managed by adding, removing, and reordering tracks (*Id.* at 4-10 to
26 4-12). The [REDACTED] that Sonos cherry-picks in Google’s system are not capable of any

27

28 ⁶ Notably, [REDACTED]

1 of these queuing functions.

2 Sonos argued during claim construction that a “playback queue” is a structure that can be
3 populated with “zero, one or multiple media items at any given time.” Dkt. No. 184 (CC Br.) at 12.

4 In contrast, [REDACTED]
5 [REDACTED]
6 [REDACTED]
7 [REDACTED]

8 [REDACTED] A “playback queue” can also be managed and edited by the user—*e.g.*, items can be added to
9 the queue to make it larger, they can be removed from the queue to make it smaller, or they can be
10 re-ordered. *Id.*, ¶73. [REDACTED]

11 [REDACTED] *Id.*, ¶74.

12 Sonos’s argument that the [REDACTED]
13 [REDACTED]
14 [REDACTED]
15 [REDACTED]
16 [REDACTED]
17 [REDACTED]
18 [REDACTED]

18 [REDACTED] Moreover,
19 the claim language makes clear that the “local playback queue” must exist as part of the step of
20 transferring playback: “transferring playback from the control device to the particular playback
21 device comprises: causing one or more first cloud servers to add multimedia content to a local
22 playback queue.” ‘615 Pat. Cl. 13. The upNextVideoID variable is added to the playback device
23 after the device has *exhausted* the playlist, and thus well after playback has been transferred.

24 **Sonos’s Third Theory:** Sonos’s third theory accuses [REDACTED]
25 [REDACTED]
26 [REDACTED]
27 [REDACTED]
28 [REDACTED]

Ex. 1 (Bhattacharjee Decl.), ¶¶80-84.

A response that contains such a hodge-podge of information is not a “playback queue,” and Sonos has not identified anything within the response that can be considered a “playback queue.” *Id.*, ¶82-83. Indeed, a person of skill in the art would understand that a playback queue is stored in a data structure by linking together different multimedia items (*e.g.* URLs corresponding to the location of the multimedia) in a particular order using linked lists, arrays, vectors, or other well-known data structures. *Id.*, ¶82. Sonos has not pointed to any such list structure. *Id.*, ¶83. Further, a playback queue persists beyond the playback of the current media,

And while a playback queue can be edited and managed, with items added, removed, or reordered in the queue,

Id., ¶84.

Sonos’s Doctrine of Equivalents (“DoE”) Argument: A patent owner that cannot show literal infringement may argue instead that the system infringes under DoE. However, “[t]he doctrine of equivalents is not simply the second prong of every infringement charge, regularly available to extend protection beyond the scope of the claims.” *See Amgen Inc. v. Sandoz Inc.*, 923 F.3d 1023, 1029 (Fed. Cir. 2019) (modified by *Amgen Inc. v. Sandoz Inc.*, 776 F. App’x 707 (Fed. Cir. 2019)). Sonos may not rely on DoE here for at least two reasons.

First, Sonos added the “local playback queue” claim element in a narrowing amendment during prosecution and therefore surrendered any right to equivalents of that claim element. During a prolonged battle with the patent examiner, including three rejections, Sonos finally amended the claims of the ’615 patent to include the “local playback queue” term (along with other narrowing amendments), and the examiner later issued the patent. Ex. 7 (2016-10-25 Claim Amendment) at 1. Supreme Court law is clear that such a narrowing amendment results in a surrender of any equivalents of this term: “When the patentee has chosen to narrow a claim, courts may presume the amended text was composed with awareness of this rule and that the territory surrendered is not an equivalent of the territory claimed.” *Festo Corp. v. Shoketsu Kinzoku Kogyo Kabushiki Co.*, 535 U.S. 722, 741 (2002). Accordingly, the *Festo* presumption applies, and Sonos is not entitled to

Indeed, the claims and specification confirm that an identifier, such as a videoId, is not “multimedia content.” Claim 20 recites “causing an identifier of the multimedia content to be added to the playback queue,” thereby distinguishing an identifier of the multimedia content from the multimedia content itself. Similarly, Claim 13 recites “playing back the retrieved multimedia content.” A POSITA would understand that a videoId cannot be played back because it is merely a short string of characters that identifies the video and is not the audio or video content itself. Ex. 1 (Bhattacharjee Decl.), ¶¶92-94. The specification of the ’615 patent also refers to the “multimedia content” as the actual music or video, and distinguishes it from an identifier which may also be stored in the queue. ’615 patent at 12:58-67 (“Songs and/or other multimedia can be retrieved from the Internet”), 13:54-57 (“play music, audio, video and/or other multimedia content.”). Accordingly, Sonos has not identified any “multimedia content” that is added to a “local playback queue” because multimedia identifiers are not multimedia content under the plain language of the claims and the description in the specification.

4. The Accused YouTube Applications Do Not Store “Resource Locators” In Any Alleged Playback Queue

The asserted claim further requires “one or more resource locators” that are “add[ed] to the local playback queue.” In its infringement contentions, Sonos provides two theories for this limitation: [REDACTED]

The accused videoID in Sonos’s first theory cannot be the claimed “resource locator” as it says nothing about where the media content is located. Using only the videoID, one has no way of knowing where the content is located. Ex. 1 (Bhattacharjee Decl.), ¶¶95-96. In fact, [REDACTED]

[REDACTED] ¶96-97 [REDACTED] ¶96-97 [REDACTED] *Id.*, ¶97.

1 Recognizing that a videoID doesn't provide location information itself, Sonos instead argues
 2 that the "resource locator" need only "facilitate locating a resource" and can do so "indirectly." Dkt.
 3 202 at 12 ("the 'resource locator' must still *facilitate* locating a resource (even if indirectly) and not
 4 merely identifying a resource.") (emphasis in original). Sonos's true construction (hidden behind
 5 the alleged "plain meaning") is therefore that a resource locator must "indirectly facilitate locating
 6 a resource." *See id.* Because Sonos has taken such an implausible view of the "plain meaning" of
 7 this term, Google proposed that "resource locator" be construed as an "address of a resource on the
 8 Internet" to crystalize the dispute, and Google showed that this construction is supported by and
 9 consistent with the intrinsic evidence in its claim construction briefing. Dkt. No. 200 at 18-21.
 10 Under Google's construction or the actual plain meaning of "resource locator," a videoID cannot
 11 meet this claim element. A videoId is simply a string of characters (*e.g.*, "n_yx_BrdRF8") that
 12 serves as an identifier for a media item. It is not an address and it does not "locate" the resource as
 13 required by the claims. Ex. 1 (Bhattacharjee Decl.), ¶¶95-98.

14 Sonos's second theory [REDACTED]
 15 [REDACTED]
 16 [REDACTED]
 17 [REDACTED]
 18 [REDACTED]
 19 [REDACTED]
 20 [REDACTED]
 21 [REDACTED]

22 5. The Accused Google Play Music Application Does Not Infringe

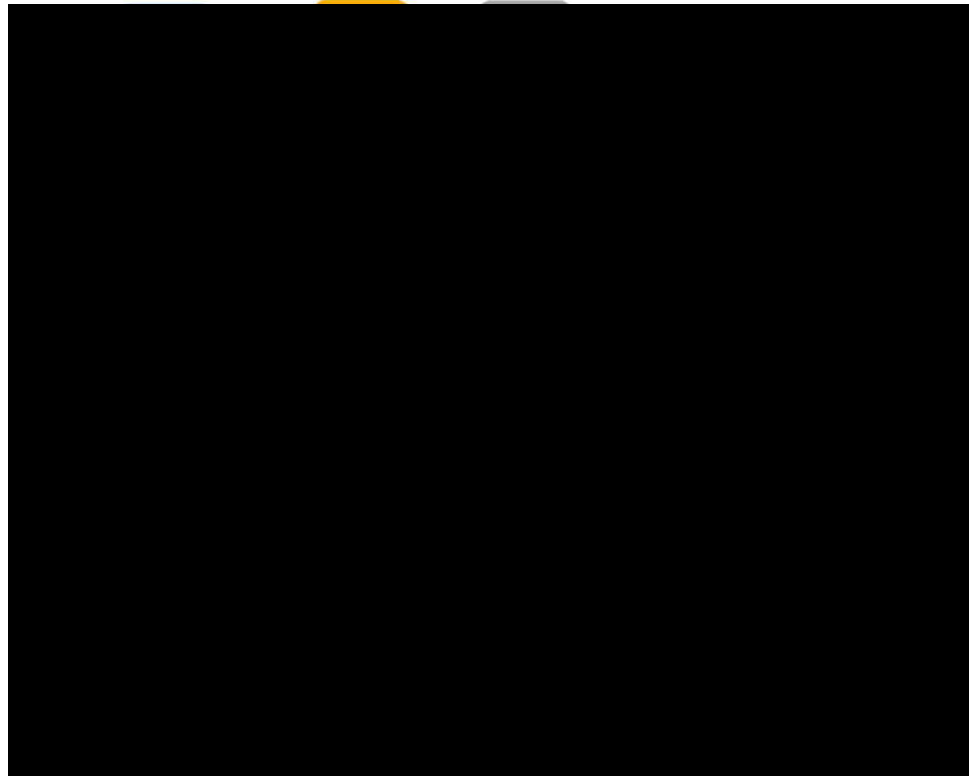
23 Like the accused YouTube applications, Google Play Music (GPM) does not satisfy the
 24 "local playback queue" or "multimedia content" limitations either.

25 6. GPM Uses A "Cloud Queue," Not A "Local Playback Queue On The 26 Particular Playback Device"

27 Playback of a queue in GPM is managed by Google's "Cloud Queue" API, which allows a
 28 user to construct a list of tracks and store them in a Cloud Queue for playback. Ex. 1 (Bhattacharjee

1 Decl.), ¶¶99-112. Cloud queue is a service owned by Play Music’s infrastructure team. First-party
2 thick clients (Android, iOS, web) construct lists of tracks (queues) and store them in Cloud Queue,
3 and then tell receivers (Chromecast, Sonos) what item to play. *Id.* Notably, Sonos now accuses of
4 infringement the same Cloud Queue API functionality that Google developed with Sonos during
5 their collaboration. Ex. 1 (Bhattacharjee Decl.), ¶112. At that time, [REDACTED]

6 [REDACTED]
7 [REDACTED]
8 [REDACTED]
9 [REDACTED]
10 A general overview of the Cloud Queue API is shown below and described here. [REDACTED]



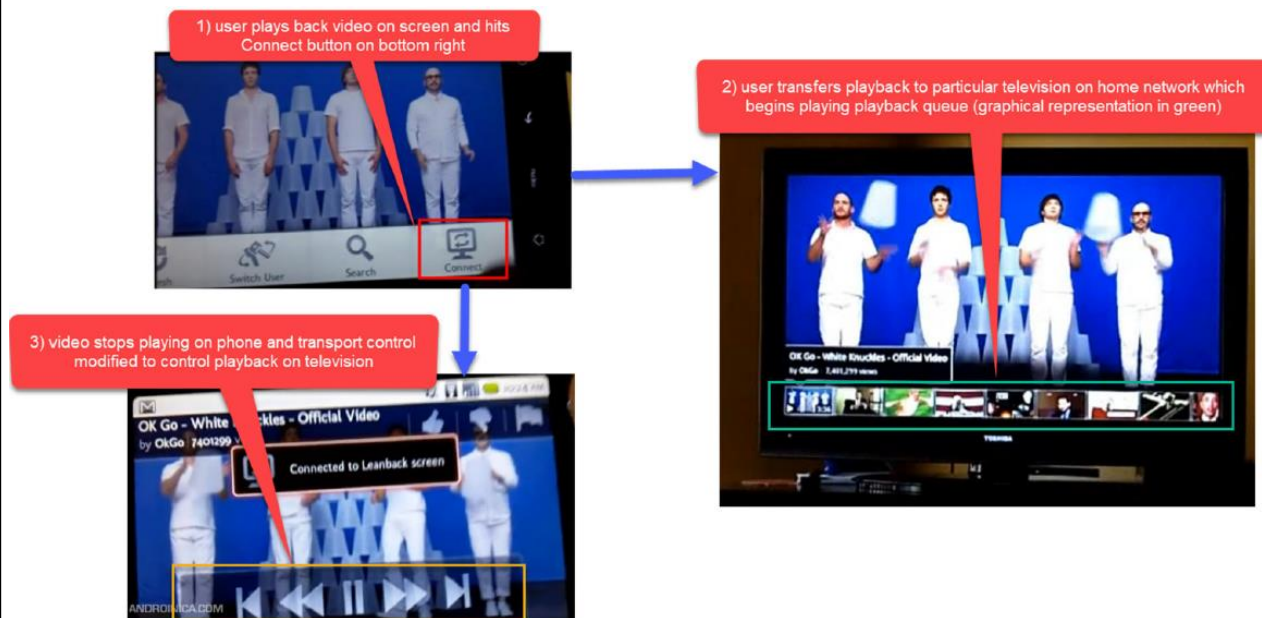
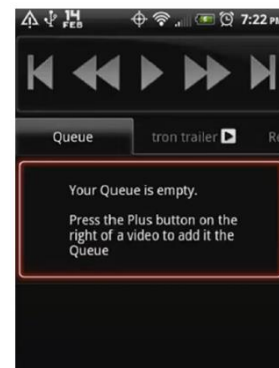
1 [REDACTED]
 2 [REDACTED]
 3 [REDACTED]
 4 [REDACTED]
 5 [REDACTED]
 6 [REDACTED]
 7 [REDACTED] The “playback queue” is the complete
 8 “ordered list of multimedia items selected by the user for playback,” which remains in the Cloud
 9 Queue. Dkt. No. 200 (CC Br.) at 11. Indeed, [REDACTED]
 10 [REDACTED]
 11 [REDACTED]
 12 [REDACTED]
 13 [REDACTED]
 14 [REDACTED]
 15 [REDACTED]
 16 [REDACTED]
 17 [REDACTED]
 18 [REDACTED]
 19 [REDACTED]

20 **7. GPM Does Not Store “Multimedia Content” In An Alleged Local**
 21 **Playback Queue**

22 The claims require that the system add “multimedia content” to the “local playback queue.”
 23 Sonos argues [REDACTED]
 24 However, the only thing that Sonos identifies as being added to the itemWindow response is a URL.
 25 As discussed *supra*, a URL cannot be “multimedia content” because the claim requires that the
 26 system “play back the multimedia content” (*see* Claims Appendix, Claim 13.6) and there is no way
 27 to “play back” a URL.
 28

B. An Earlier Version of the YouTube Application Invalidates Claim 13

Google released the YouTube Remote (“YTR”) application on November 9, 2010, over a year before the ‘615 Patent’s priority date. Ex. 9 (Bobohalma Decl.), ¶3.7 Users of the YTR prior art could queue up YouTube videos on their phone by adding them to a playback “queue,” as can be seen in the image of the YTR prior art on the right. Ex. 1 (Bhattacharjee Decl.), ¶129. A user could begin playback of the queue on the YTR application (“the control device”) and then transfer playback to a particular television (“playback device”) on the user’s home Wi-Fi network by pressing a “Connect” button (“selectable option for transferring playback”) on the graphical interface of the application. Thereafter, a user could use “transport controls” (*e.g.*, play, pause, skip) to control playback on the television. This process is shown in the images below from a video review of the YTR application uploaded to YouTube on November 14, 2010:



<https://www.youtube.com/watch?v=EGdsOslqG2s> (“YTR Video”); Ex. 1 (Bhattacharjee Decl.), ¶130, 136.

In fact, the protocol that manages transfer and control of playback from a prior art YTR application to a playback device [REDACTED]

⁷ YTR is therefore prior art under 35 U.S.C. § 102(a), (b), and (g).

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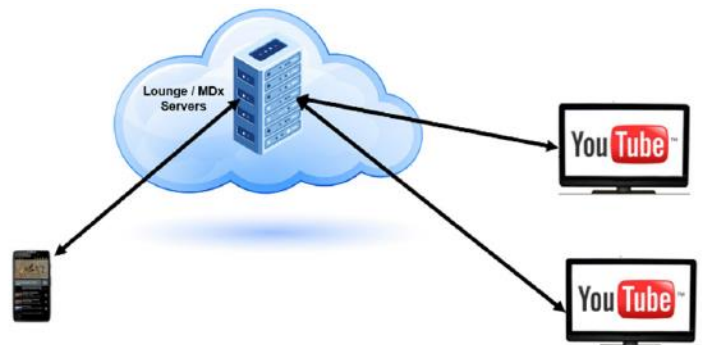
7

8

9

██████████ *Id.*, ¶¶128-145; Ex. 2.

10 The table below compares the accused
 11 and prior art functionality for the
 12 limitations in Claim 13 relating to
 13 “transferring playback” and “playing”
 14 the local playback queue. *See* Claims



15 Appendix, Limitations 13.5-13.6. To the extent Sonos’s infringement contentions are credited,
 16 Sonos cannot dispute the YTR prior art discloses the same limitations. *01 Communique Lab’y, Inc.*
 17 *v. Citrix Sys., Inc.*, 889 F.3d 735, 742 (Fed. Cir. 2018) (“if a claim term must be broadly interpreted
 18 to read on an accused device, then this same broad construction will read on the prior art.”).

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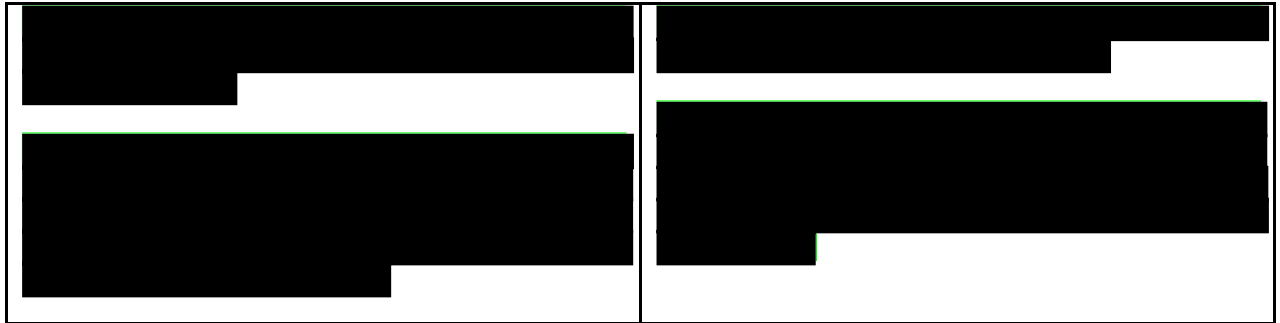
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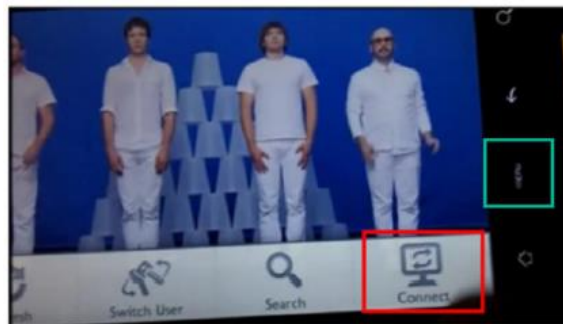


Sonos disputes the YTR's disclosure of only two other limitations: Limitations 13.2 and 13.4. *See* Claims Appendix. The YTR prior art satisfies these limitations, or they are obvious.

Anticipation: The YTR prior art discloses “identifying, via the control device, playback devices connected to the local area network” (Limitation 13.2). For example, an Android phone running the YTR application identifies playback devices (televisions) connected to a local area network. Ex. 1 (Bhattacharjee Decl.), ¶157-158. Indeed, in order for a YTR application to be paired to one or more televisions, the application and televisions need to be paired together over the Internet. Ex. 1 (Bhattacharjee Decl.), ¶158. This was accomplished by having each television connect to the Wi-Fi network, navigating to the website www.youtube.com/leanback, and logging each television into the same YouTube account that the YTR application is logged into. *Id.*, ¶158; GOOG-SONOSWDTX-00041837 (“The user opens Leanback. Leanback registers with the server...”). Each time a television was paired, it registered with the MDx server and the server sent a “loungeScreenConnected” message to the YTR application indicating that the television was connected and available to transfer playback. *Id.*, ¶158; GOOG-SONOSWDTX-00041837 (after television registers with the server, “[t]he server sends a loungeScreenConnected message to the remote.”). Thus, the prior art YTR application identifies one or more televisions connected to the LAN by receiving loungeScreenConnected messages. *Id.*, ¶158.

The YTR prior art also discloses “detecting, via the control device, a set of inputs to transfer playback from the control device to a particular playback device, wherein the set of inputs comprises: (i) a selection of the selectable option for transferring playback from the control device and (ii) a selection of the particular playback device from the identified playback devices connected

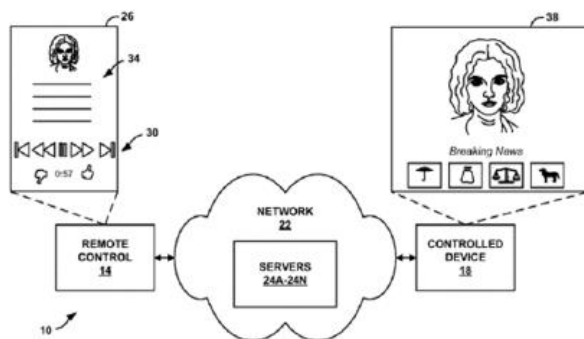
1 to the local area network” (Limitation 13.4). To transfer playback using the YTR application the
 2 user may press the menu button (shown in green in
 3 the image on the right) which brings up a “Connect”
 4 button (shown in red) that the user may further select
 5 to transfer playback to a particular playback device.



6 *Id.*, ¶159. The user’s selection of menu and select
 7 are a “set of inputs” to transfer playback that are detected by the Android phone. *Id.*, ¶159-162.
 8 Additionally, the Connect button satisfies the two “selection” elements because it is both a
 9 “selectable option” for transferring playback and a selection of the particular playback device. *See*
 10 *Powell v. Home Depot U.S.A., Inc.*, 663 F.3d 1221, 1231-32 (Fed. Cir. 2011) (holding that the
 11 limitation “said cutting box interior in fluid communication with dust collection structure for
 12 collecting sawdust” could be literally met by a single “dust collection structure”). Thus, the YTR
 13 remote anticipates Claim 13.

14 **Obviousness:** To the extent Sonos contends that the Connect button is only a “selectable
 15 option for transferring playback” and that “a selection of the particular playback device from the
 16 identified playback devices” requires the ability to further select some (but not all) of the multiple
 17 televisions that may have been paired, it would have been at least obvious to modify the YTR remote
 18 so that upon pressing the Connect button the televisions that are paired with the YTR application
 19 are displayed and selected individually for transfer. Ex. 1 (Bhattacharjee Decl.), ¶163-173.

20 For example, Google filed a patent based on its work on the YTR prior art . Ex. 9
 21 (Bobohalma Decl.), ¶4. Specifically, U.S. Patent
 22 No. 9,490,998 (“the YTR Patent”) was filed on
 23 March 7, 2011 and claims priority to an earlier
 24 provision application filed on November 8,
 25 2010.⁸ The inventors of the YTR Patent are also
 26 inventors of the YTR prior art. Ex. 9 (Bobohalma



⁸ The YTR Patent was filed before Sonos’s alleged invention date (July 15, 2011) and is prior art.

Decl.), ¶4. Figure 1 of the YTR Patent is shown above and illustrates a “Remote Control 14” (e.g., a smartphone running the YTR application), connected to a “Controlled Device 18” (e.g., a paired television) via “servers 24A-24N” (e.g., the MDx servers). The YTR Patent expressly discloses that the “user interface” of the Remote Control may display the “previously paired controlled devices” so that a user may select and control “one or more paired controlled devices.” YTR Patent at 10:62-11:6; *see also id.* at 8:11-12 (“Remote controls 62 and controlled devices 64 may be paired using a variety of techniques”). There can be no genuine dispute that it would have been obvious to combine the teachings of the YTR Patent with the YTR system. Both are directed to the same field, the same product, and involve the same inventors. Ex. 1 (Bhattacharjee Decl.), ¶167-169. In fact, Google implemented this feature in the YTR system prior to the effective filing date of the ‘615 patent (December 30, 2011), and released a version of the YouTube remote with the feature by January 25, 2012, as shown in the image on the right. *Id.*, 169, Ex. 14.



As another example, this limitation was also obvious in view of Google’s Project Tungsten, Apple’s AirPlay, and/or the Al-Shayk patent publication. Ex. 1 (Bhattacharjee Decl.), ¶172-173.

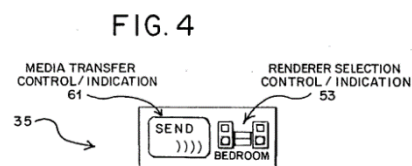
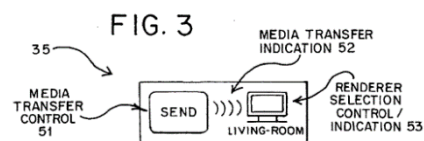
Project Tungsten: Google’s Project Tungsten was unveiled at Google’s annual developer conference on May 10, 2011. As

demonstrated at the conference, with Project Tungsten a tablet was used to “direct music to one or more Tungsten boxes like the ones we have here [*i.e.*, the “Stage Left” or “Stage Right” output speakers shown in the image above].” <https://www.youtube.com/watch?v=3SNPFPKS4U4> (video of developer conference, updated on May 10, 2011) at 3:40-4:00.

1 **Apple Airplay:** Similarly, in November of 2010 Apple released Airplay, which enabled a
 2 control device such as an iPhone or iPad to identify
 3 devices on the Wi-Fi network, and then allowed
 4 users to click on an “Airplay” icon to display an
 5 option to transfer playback to a particular one of the
 6 identified playback devices, as annotated in the
 7 image to the right. Ex. 12; Ex. 1 (Bhattacharjee
 8 Decl.), ¶30.



9 **Al-Shaykh (U.S. Publication No. 2011/0131520):** And as yet a further example, patents
 10 such as Al-Shaykh disclosed a controller with a “send”
 11 button (image on the right) that could be used for “transfer
 12 of media content from the media application to [a] target
 13 rendering device in the home network.” For example the
 14 user could select a “living room” (Fig. 3) or “bedroom”
 15 device (Fig. 4) for the transfer. Al-Shaykh at Abstract, ¶¶99-
 16 100 (“media transfer control 51” may be labeled “send,”
 17 “transfer,” “Play To,” etc.).



18 In view of any one of the YTR Patent, Project Tungsten, Apple’s Airplay or Al-Shayk patent
 19 publication, modifying the YTR prior art to display each of the paired devices that are available was
 20 nothing more than the application of a “known technique” (a user interface that displays available
 21 devices) to improve similar devices in the same way (improve YTR prior art by allowing selection
 22 of individual playback devices for transfer). Ex. 1, ¶165. A POSITA would have been motivated
 23 to make this straightforward and narrow modification, and would have had a reasonable expectation
 24 of success in doing so. Ex. 1 (Bhattacharjee Decl.), ¶170.

25 Accordingly, the YT prior art anticipates, or at minimum, renders obvious Claim 13.

26 C. Google Does Not Infringe Claim 1 of the ’885 Patent

27 Asserted claim 1 of the ’885 Patent requires that the accused system use what the patent calls
 28 a “zone scene,” but the accused Google products cannot infringe because they do not include any

1 such “zone scene.” Specifically, claim 1 requires a zone player (e.g., a speaker) to receive an
2 indication that it has been added to a first “zone scene” and then to a second “zone scene.” *See* ’885
3 Pat. Cl. 1. Afterwards, the zone player will receive an “instruction to operate in accordance with a
4 given one of the first and second zone scenes.” *Id.* Sonos argues that the “zone scene” limitations
5 are met because the accused Google speakers may be **grouped** together for playback. But a “zone
6 scene” must be something more than merely a group. Rather, “zone scene” was a new term coined
7 by the inventors that has been construed to mean “a previously saved grouping of zone players
8 according to a common theme.” Dkt. 106 (Markman Hearing Tr.) at 38:1-3. Because there is no
9 genuine dispute that Google’s products do not include a “common theme” or “zone scene,” summary
10 judgment of non-infringement is warranted.

11 What Sonos accuses as meeting the “zone scene” element [REDACTED]
12 [REDACTED] But these are merely generic speaker groups, which were well known
13 in speaker systems at the time. Ex. 14 (Schonfeld Decl.) ¶19-20. Using Google’s Home application,
14 a user may change the volume of the groups, and a user may play music through the grouped
15 speakers or individual speakers, but [REDACTED]
16 [REDACTED]

17 The key claim term, “zone scene,” has already been construed in this case as requiring a
18 “common theme.” Dkt. 106 at 38 (“The construction for that claim term is going to be: A
19 previously-saved group of zone players according to a common theme.”). As Google explained in
20 its claim construction briefing, this construction should continue to bind Sonos because it is law of
21 the case and Sonos has neither established that the construction was “clearly erroneous” nor
22 presented any “new evidence” to warrant departing from the prior construction. *See* Dkt. 200 at 1-
23 5. Consistent with the current construction, the specification clearly defines what “zone scene”
24 means: “Using *what is referred to herein as a theme or a zone scene*, zones can be configured in
25 a particular scene (*e.g.*, morning, afternoon, or garden), where a predefined zone grouping and
26 setting of attributes for the grouping are automatically effectuated.” ’885 Pat. at 8:47-51.
27 Accordingly, a “scene” may automatically trigger a group with a particular playlist, volume,
28 equalization, or other “attributes” described in the specification that are consistent with the common

1 theme. *See id.* at 9:20-30. Sonos’s contrary construction that a “zone scene” may merely be a group
 2 of speakers reads out the critical meaning of the phrase—a “zone scene” must include some type of
 3 “scene” information. Omitting “scene” or “theme” information from the construction of “zone
 4 scene” would be contrary to the specification of the ‘885 patent, which repeatedly discusses
 5 “conventional multi-zone audio systems” and improvements to those audio systems using zone
 6 scenes. *Id.* at 1:46-2:24.

7 As discussed above, [REDACTED]

8 [REDACTED]
 9 [REDACTED], Sonos tries to manufacture two infringement theories to attempt
 10 to skirt the issue. First, Sonos’s contentions argue that every generic speaker group has a “common
 11 theme” by speculating that “every ‘speaker group’ that a user creates in a Cast-enabled playback
 12 system has some common theme, which in this context amounts to *whatever common topic, subject,*
 13 *etc. led the user to decide* that these particular Cast-enabled media players should be placed into a
 14 previously-saved group that allows for synchronous playback when invoked.” In other words,
 15 Sonos argues that the “common theme” is whatever the user was thinking about when he or she
 16 created the group. This argument is a non-starter because it is impossible to tell what a user was
 17 thinking to prove infringement and the case law decidedly rejects any argument that one can infringe
 18 by *thinking*. For example, in *Amazon.com, Inc. v. Barnesandnoble.com, Inc.*, 239 F.3d 1343, 1353
 19 (Fed. Cir. 2001), the Federal Circuit held that the plaintiff failed to establish a likelihood of success
 20 on infringement because its infringement theory required “assign[ing] a meaning to a patent claim
 21 that depends on the *state of mind* of the accused infringer.” *Id.* (emphasis added); *see also Bd. of*
 22 *Trustees of Leland Stanford Junior Univ. v. Roche Molecular Sys., Inc.*, 528 F. Supp. 2d 967, 978
 23 (N.D. Cal. 2007). Further, to the extent Sonos argues that *every time* a user creates a group, there
 24 must necessarily always be a “common theme” or “scene” associated with that group, doing so
 25 would effectively render the claim term “zone scene”—that Sonos coined—meaningless, which is
 26 a “highly disfavored” approach to claim construction. *Wasica Fin. GmbH v. Cont’l Auto. Sys., Inc.*,
 27 853 F.3d 1272, 1288 (Fed. Cir. 2017).

28 Second, Sonos’s contentions argue that because [REDACTED]

1 [REDACTED]
2 [REDACTED] In other words, Sonos contends that anytime a group is named, it must meet the
3 “common theme” requirement of the claims. This argument is similarly meritless. First of all, prior
4 art systems, including those before the Examiner, allowed users to set the name of speaker groups.
5 Ex. 14 (Schonfeld Decl.) ¶21. Even the admitted prior art in the patent describes zones named
6 morning, evening, and weekend. ‘885 Pat. at 2:9-14; *PharmaStem Therapeutics, Inc. v. ViaCell,*
7 *Inc.*, 491 F.3d 1342, 1362 (Fed. Cir. 2007) (“Admissions in the specification regarding the prior art
8 are binding on the patentee . . .”).

9 Further, a user may name speaker groups in the Google Home app whatever he or she wants.
10 For example, a user may name their three speaker groups “1,” “2,” and “3”; or “A,” “B,” and “C.”
11 None of these speaker group names indicates a “common theme,” and none of these speaker groups
12 is “serving as a user’s shorthand label of the common theme” either. *See id.* Rather, users could
13 name their speaker groups in the most expedient, but least descriptive way possible. They could
14 also do the opposite, but in either case there is no reason to believe that a name of a speaker group
15 is a “common theme.”

16 Indeed, the specification confirms that “naming” groups is different from the claimed “zone
17 scenes.” “Zone scenes” are described as configuring zones “in a particular scene (e.g., morning,
18 afternoon, or garden), where a predefined zone grouping ***and setting of attributes for the grouping***
19 ***are automatically effectuated.***” ‘885 Pat. at 8:47-51 (emphasis added). On the other hand, the
20 specification discusses naming speaker groups separately from the more complex “zone scene”
21 settings; for example, describing a conventional set of a “morning group,” “evening group,” and
22 “weekend group,” each of which contained a speaker in the “den.” ‘885 Pat. at 2:9-15.

23 In sum, “zone scene” is a term that the inventors coined to describe the allegedly novel
24 aspects of the appropriately-titled “Zone Scene Management” patents. The inventors were aware
25 that conventional speaker groups were in the prior art, and that those groups could be given names,
26 as the background to the patent makes abundantly clear. Accordingly, the term “zone scene” was
27 construed to require an additional “common theme” disclosed in the patent that could be applied to
28 speaker groupings. That “common theme” is not met through the thoughts in the mind of a user as

1 he or she creates a conventional speaker group, nor is it merely the name of a speaker group. The
2 former is unknowable and unprovable, and the latter is functionality that the patent distinguished
3 from “zone scene” in the specification. Sonos has not identified any functionality aside from
4 speaker groups and naming as meeting the “zone scenes” claim element, but neither are sufficient.
5 As such, there is no genuine dispute of fact that Google’s accused products do not have “zone
6 scenes” and Google cannot infringe claim 1 of the ‘885 patent.

7 **IV. CONCLUSION**

8 For the foregoing reasons, Google respectfully requests that the Court grant Google’s motion
9 for summary judgment with respect to both claim 13 of the ’615 Patent and claim 1 of the ’885
10 Patent.

1 DATED: April 24, 2022

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CERTIFICATE OF SERVICE

Pursuant to the Federal Rules of Civil Procedure and Local Rule 5-1, I hereby certify that, on April 24, 2022, all counsel of record who have appeared in this case are being served with a copy of the foregoing via the Court's CM/ECF system and email.

/s/ Charles K. Verhoeven
Charles K. Verhoeven